

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/077259 A1

(51) International Patent Classification⁷: **A61B 3/113**
(21) International Application Number:
PCT/US2005/003780

(22) International Filing Date: 4 February 2005 (04.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/541,590 4 February 2004 (04.02.2004) US

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

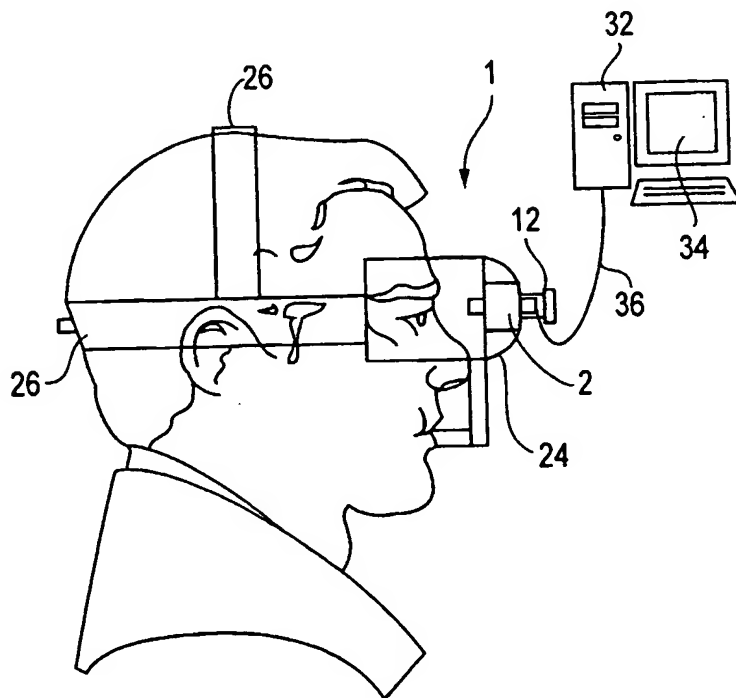
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR THREE-DIMENSIONAL VIDEO-OCULOGRAPHY



(57) Abstract: A device (1) for measuring the three-dimensional movements of an eye includes: (a) a marker array (6) that identifies prescribed positions on the eye whose movements are to be measured, (b) a digital camera (2) for capturing the two-dimensional images of this marker array (6) as the eye is moved, (c) a light source (12) that illuminates the marker array (6) with an output that is outside the spectral range of the camera (2), (d) light sources (20) that are used to align the camera's optical axis with the center of the eye, (e) an algorithm for computing the three-dimensional positions of the marker array (6) from the information contained in the captured digital images, and (f) a base (16) for fixing the position of the camera relative to the position of the eye, wherein the materials of the marker array (6) are chosen so that the array has the ability to, when illuminated as described above, give off energy that is in the spectral range of the device's camera (2).